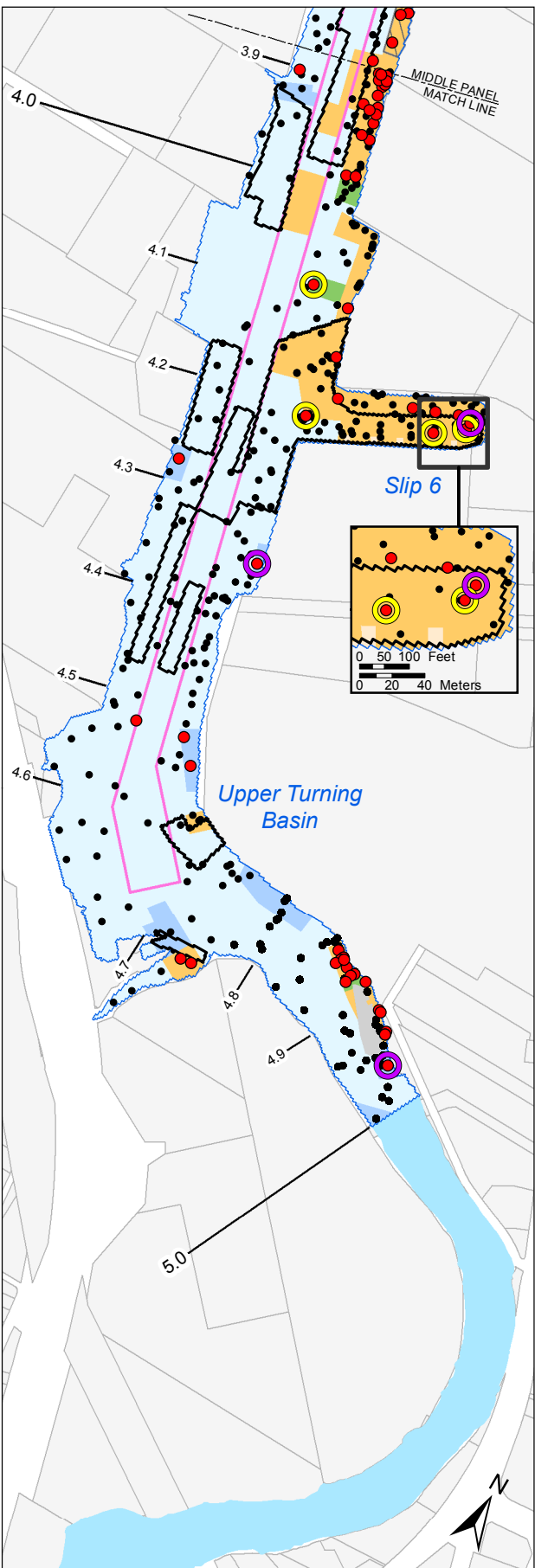
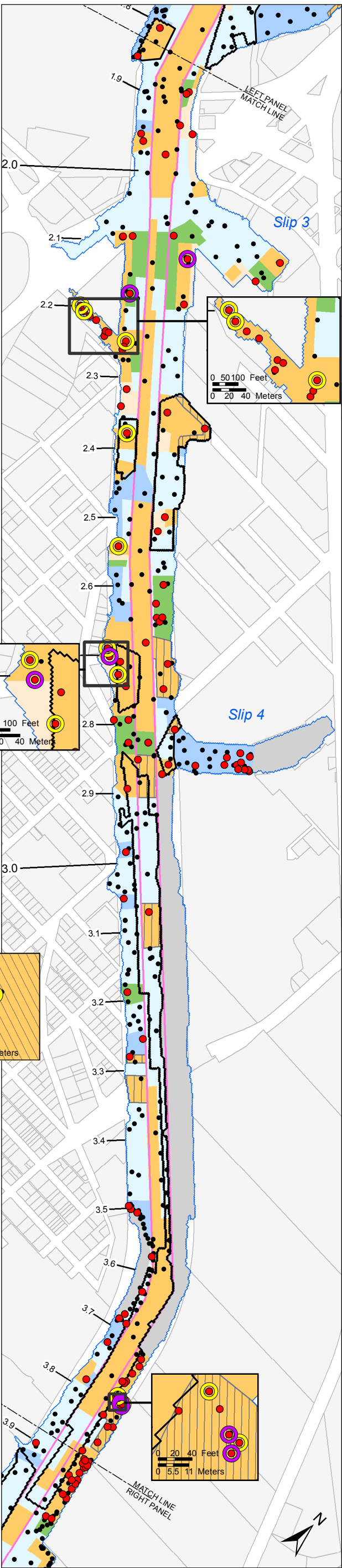
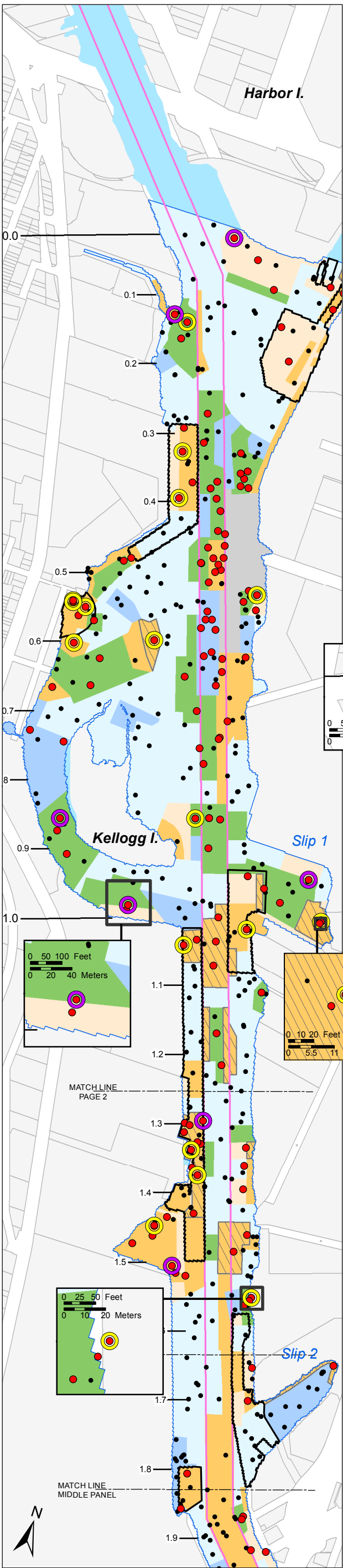


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RAL exceedance status for surface sediment (0-10 cm) sampling locations^a

- No RAL exceedance
- Any RAL exceedance
- Any benthic protection PAH RAL exceedance (may also have cPAH exceedance)
- cPAH-only RAL exceedance (RAL = 1,000)

Technology assignment

- Dredge
- Partial Dredge and Cap
- Cap
- ENR/*in situ*
- Monitored Natural Recovery (Surface Sediment >SCO)
- Monitored natural recovery (Surface sediment <SCO)
- EAA
- Recovery category 1
- LDW Superfund Boundary
- King Co tax parcel
- Navigation Channel
- River mile

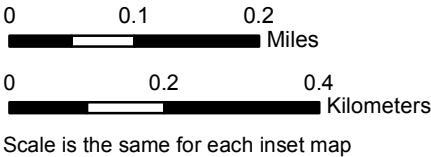
^a RALs are those presented in the ROD. RAL exceedance/non-exceedance locations are shown only for detected exceedances in the RIFS dataset and are consistent with recovery category designations in the FS. RM 4.75 to 5 was assumed to be Recovery Category 2 for this exercise (no recovery category was designated for this area in the FS). Samples also include up to 0-15 cm.

Map 1. Exceedances of the RAL for cPAHs and SMS PAHs in surface sediment

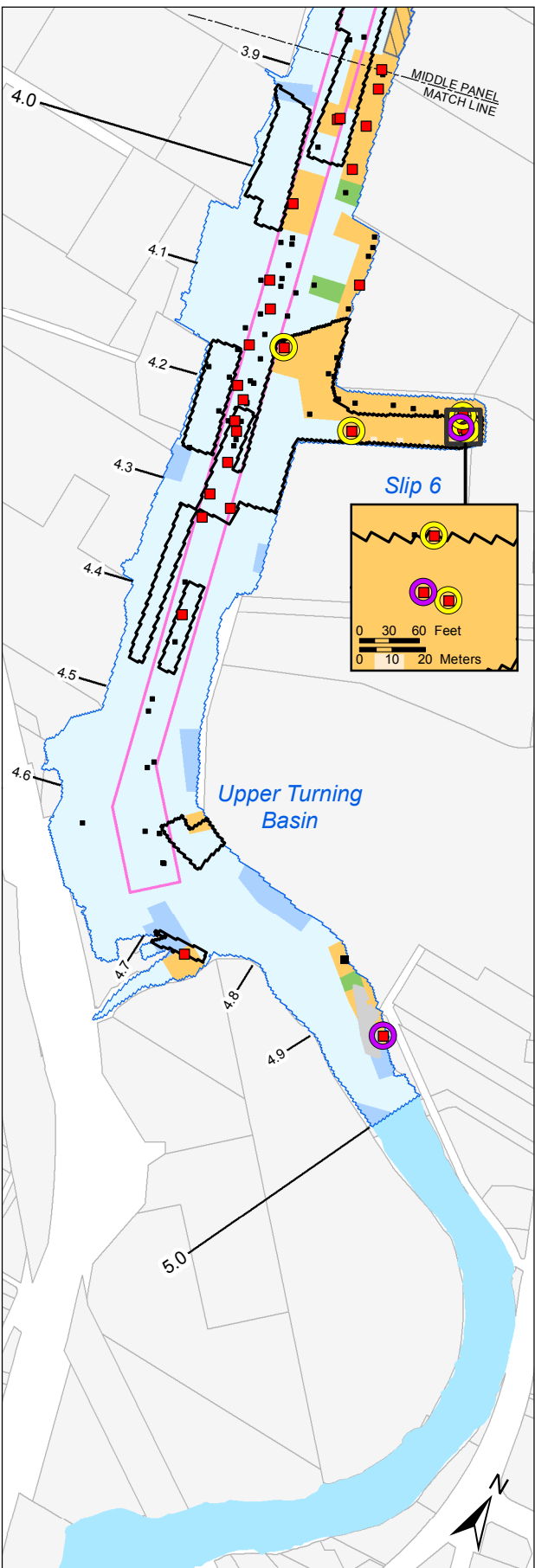
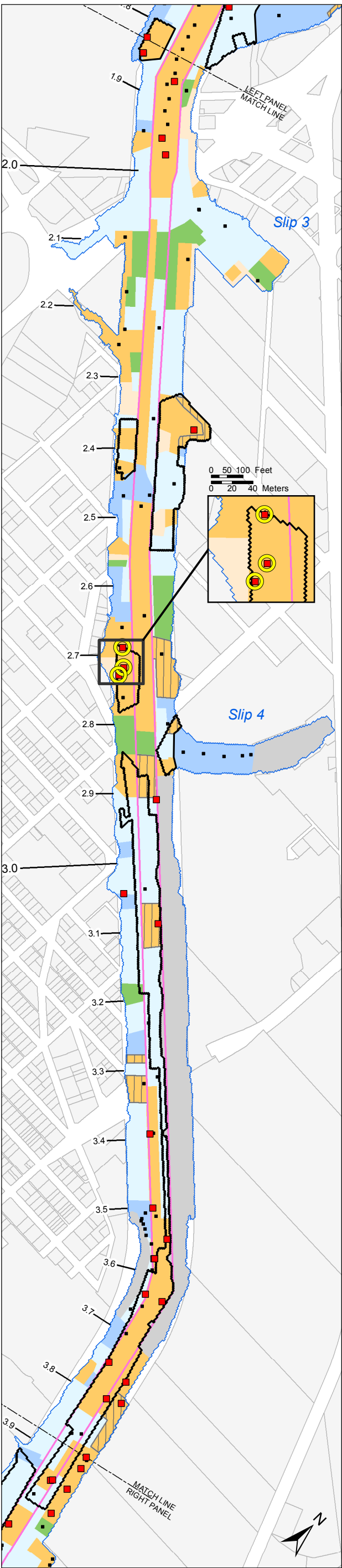
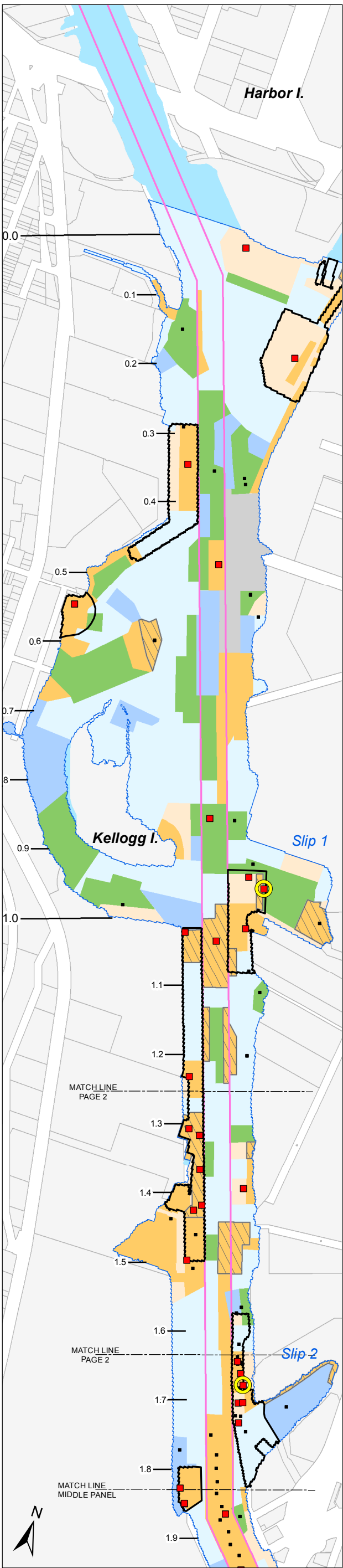
IMPLICATIONS of UPDATED SLOPE FACTOR for BENZO(A)PYRENE

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RAL exceedance status for subsurface core locations^{a, b}

- No RAL exceedance
- Any RAL exceedance
- Any benthic protection PAH RAL exceedance (may also have cPAH exceedance)
- cPAH-only RAL exceedance (RAL = 1,000)

Technology assignment

- Dredge
- Partial Dredge and Cap
- Cap
- ENR/*in situ*
- Monitored Natural Recovery (Surface Sediment >SCO)
- Monitored natural recovery (Surface sediment <SCO)
- EAA
- Recovery category 1
- LDW Superfund Boundary
- King Co tax parcel
- Navigation Channel
- River mile

^a RALs are those presented in the ROD. RAL exceedance/non-exceedance locations are shown only for detected exceedances in the RIFS dataset and are consistent with recovery category designations in the FS. RM 4.75 to 5 was assumed to be Recovery Category 2 for this exercise (no recovery category was designated for this area in the FS).

Map 2. Exceedances of the RAL for cPAHs and SMS PAHs in subsurface cores

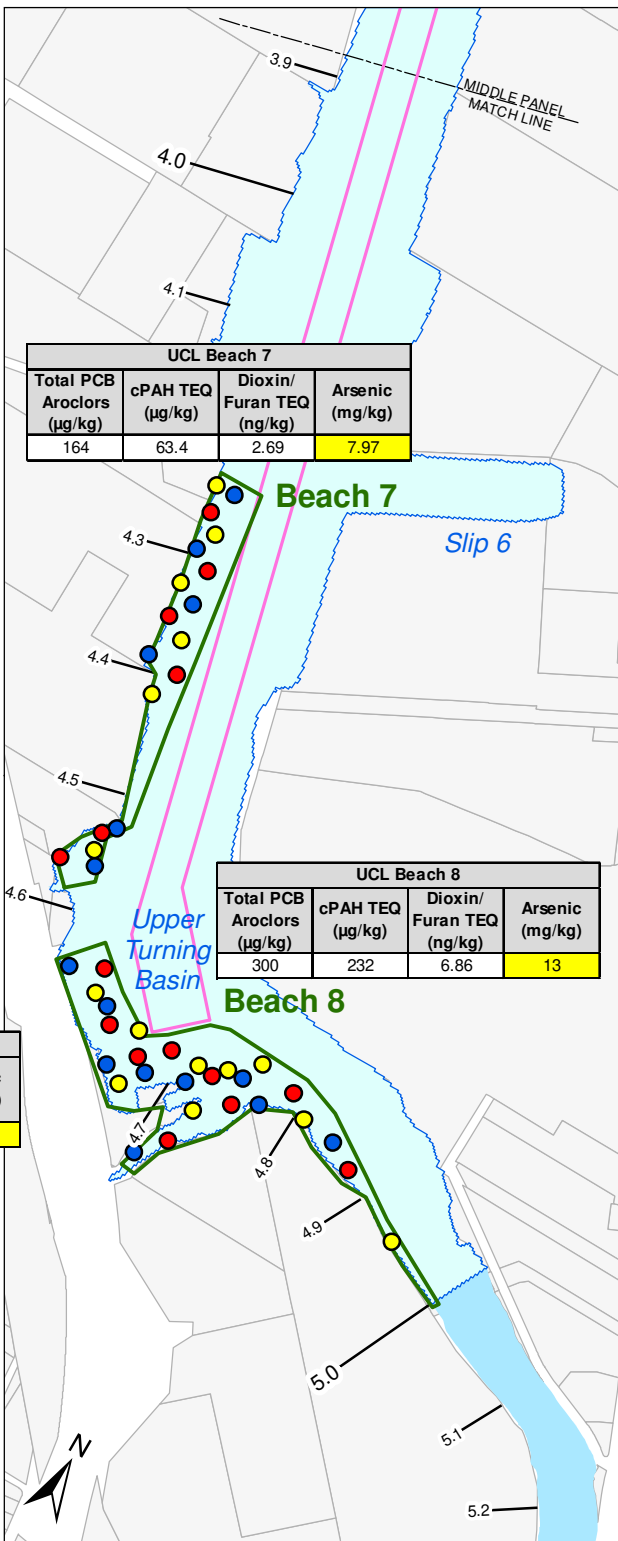
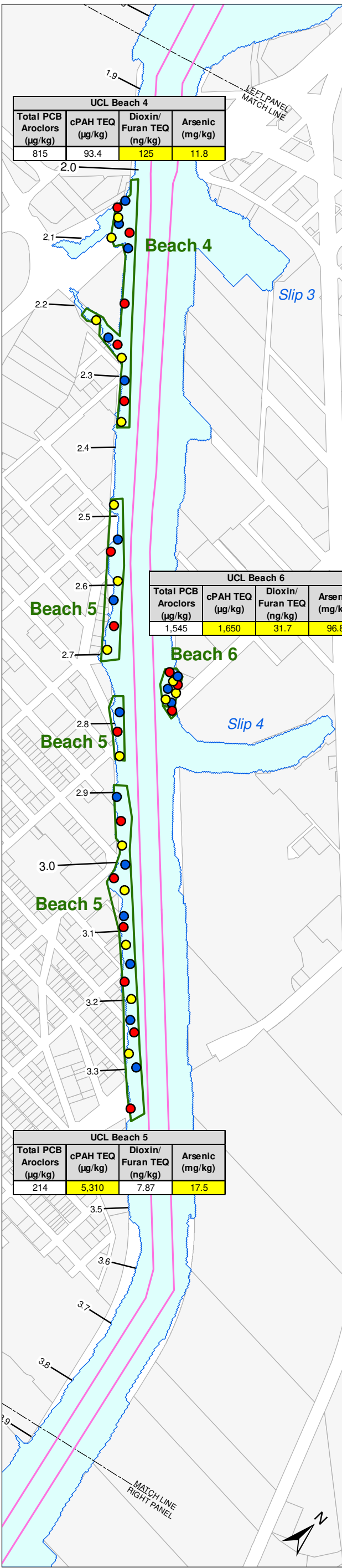
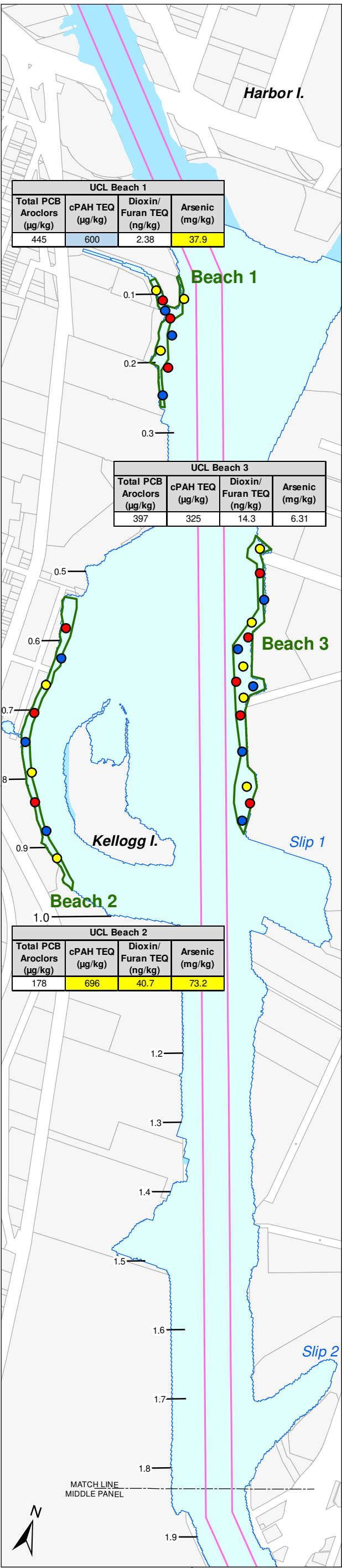
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0 0.1 0.2 Miles
0 0.2 0.4 Kilometers
Scale is the same for each inset map

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Beach play sample collection location (0-45 cm)

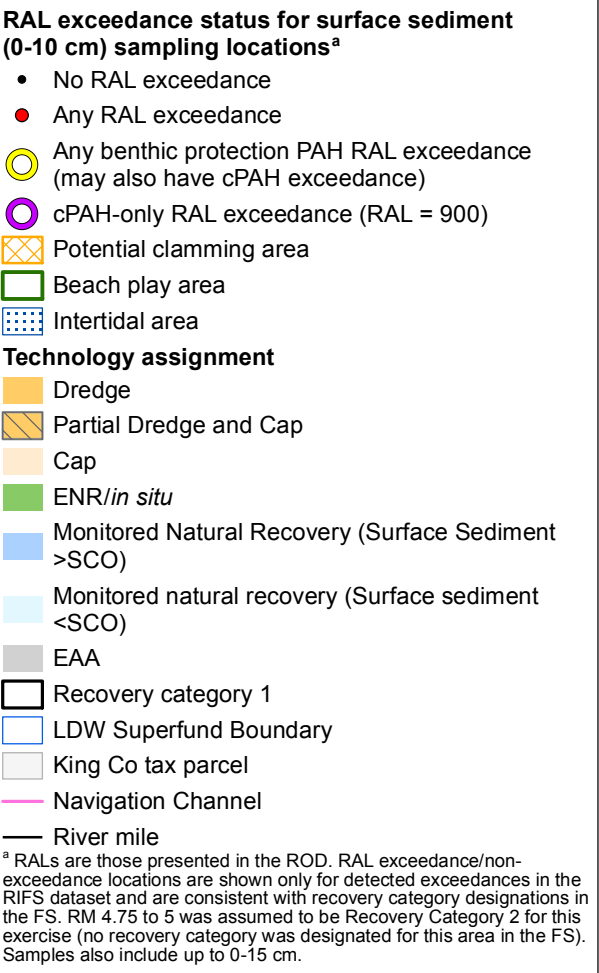
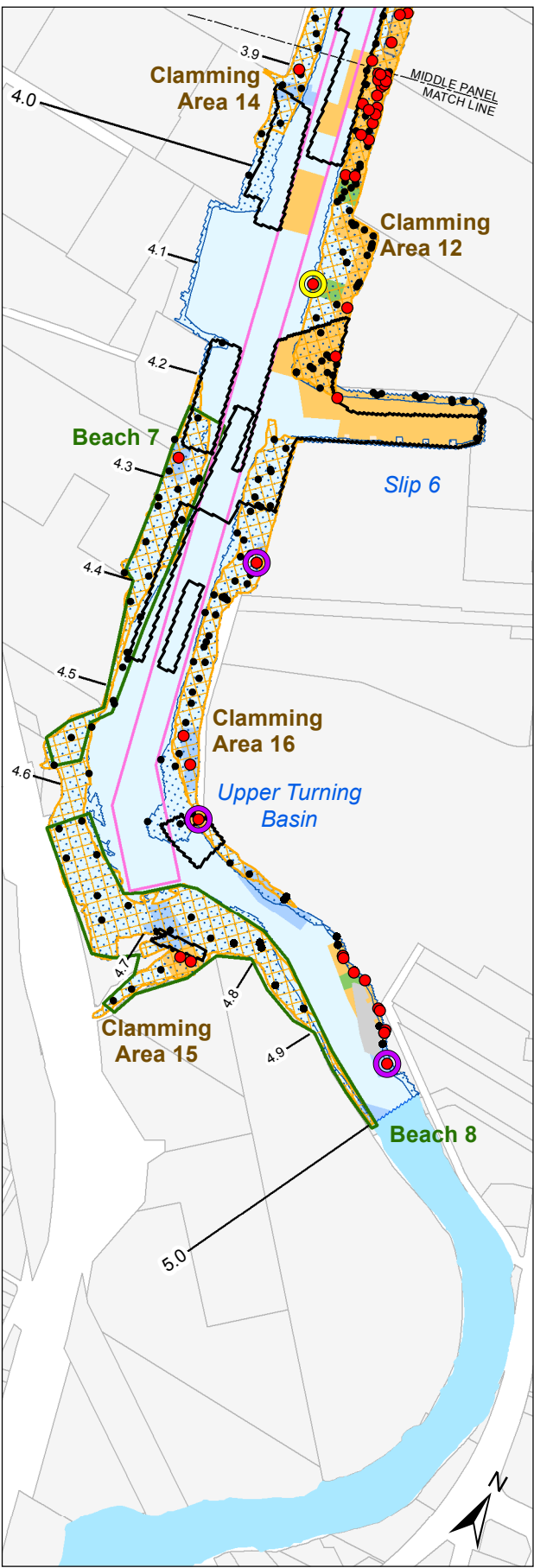
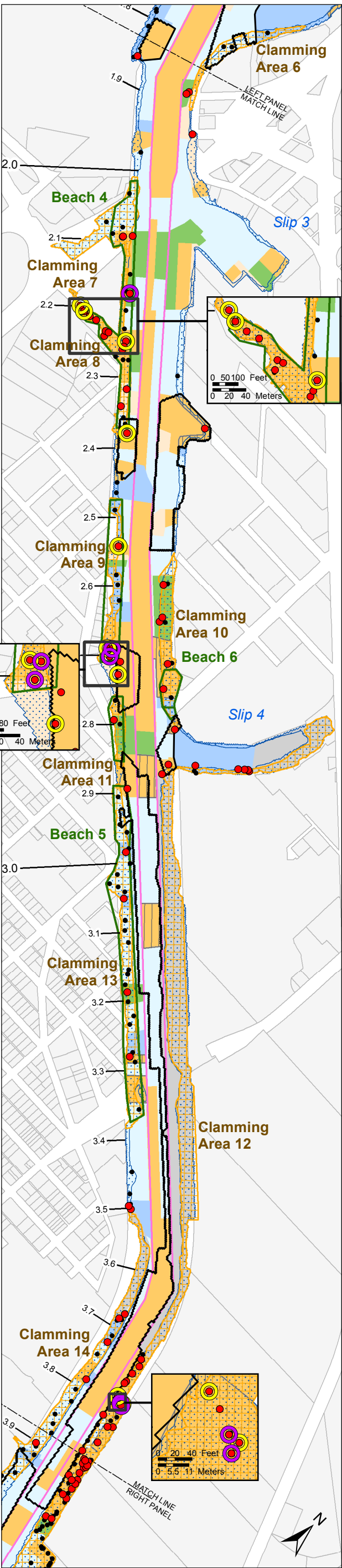
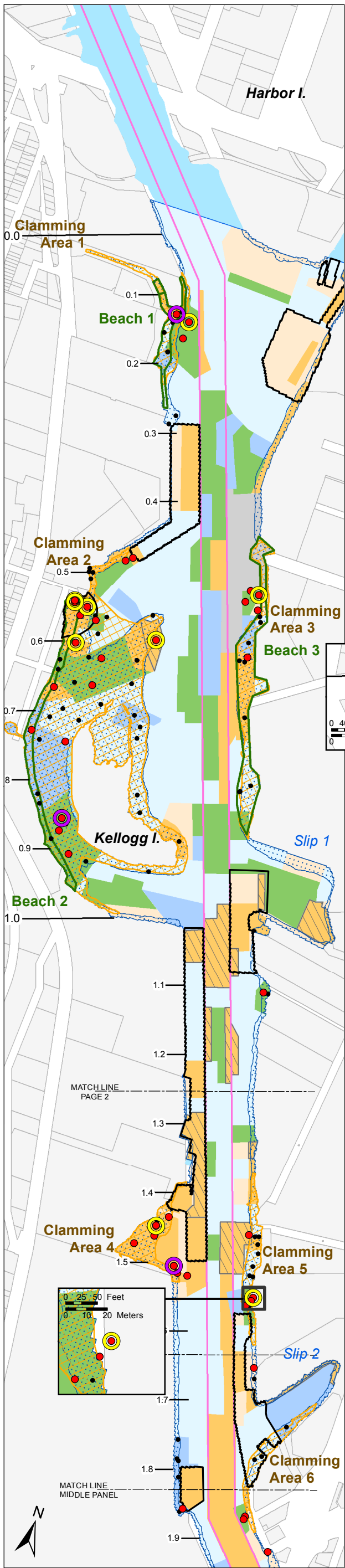
- Composite 1
- Composite 2
- Composite 3
- Beach play area
- LDW Superfund Boundary
- King Co tax parcel
- Navigation Channel
- River mile

Chemical	RAO 2 Beach Play Cleanup Level
Total PCBs (ug/kg)	1,700
cPAH TEQ (ug/kg)	90/650
Dioxin/Furan TEQ (ng/kg)	28
Arsenic (mg/kg)	7

Note: In the beach chemistry results tables the **yellow highlight** means that the 95UCL for the beach is greater than the RAO 2 beach play cleanup level. cPAHs are compared to the updated RBTC-based cleanup level based on the new EPA slope factor. The blue highlight means that the 95UCL is greater than the cleanup level when duplicate values are included.

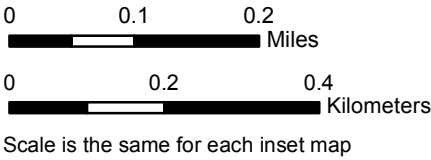
Map 3. Comparison of 2018 UCLs for each beach with RAO 2 beach play cleanup levels

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Map 4. Exceedances of the RAL for cPAHs and SMS PAHs in potential clamming area, beach play area, and intertidal area surface sediment

IMPLICATIONS of UPDATED SLOPE FACTOR for BENZO(A)PYRENE